LETTERS


EDITORIAL

Organization of the Climate Program: R. G. Fleagle

ARTICLES

Carbon-14 Time Scale Extended: Comparison of Chronologies: P. M. Grootes

North American Glacial History Extended to 75,000 Years Ago: M. Stuiver, C. J. Heusser, I. C. Yang

The Glycosylation of Hemoglobin: Relevance to Diabetes Mellitus: H. F. Bunn, K. H. Gabbay, P. M. Gallop

NEWS AND COMMENT

The Skylab Is Falling and Sunspots Are Behind It All

Briefing: Doctors' Fees—Free from the Law of Supply and Demand; Another Ford Energy Study: A Hard Look at Coal; An Alaska Lands Bill to Please Environmentalists

Government Seeking Ways to Encourage Aquaculture

RESEARCH NEWS

Plate Tectonics: What Forces Drive the Plates?

The Media: The Image of the Scientist Is Bad

AAAS NEWS

Annual Meeting—A Potpourri: J. Wrather; Retired?: Moratorium on Nominations of AAAS Fellows: W. D. Carey; Future Directions Report Available; AAAS Cross Country; For the Library

BOOK REVIEWS

Corn and Corn Improvement, reviewed by G. Wilkes; Lipid Metabolism in Mammals, W. E. M. Lands; Calcium-Binding Proteins and Calcium Function, M. Bárany; Archeological Approaches to the Present, R. Whallon; Books Received

REPORTS

New Low-Dimensional Molecular Metals: Single-Crystal Electrical Conductivity of Nickel Phthalocyanine Iodide: C. J. Schramm et al. 47
Periodicity and Chaos in Coupled Nonlinear Oscillators: J. P. Gollub, T. O. Brunner, B. G. Danly. 48
Muscular Dystrophy: Inhibition of Degeneration in vivo with Protease Inhibitors: A. Stracher, E. B. McGowan, S. A. Shafiq. 50
Prostacyclin: A Potentially Valuable Agent for Preserving Myocardial Tissue in Acute Myocardial Ischemia: A. M. Lefer et al. 52
Size and Shape of the Lateral Intercellular Spaces in a Living Epithelium: K. R. Spring and A. Hope 54
Separation of the Sperm Agglutinin and the Acrosome Reaction–Inducing Substance in Egg Jelly of Starfish: Y. Uno and M. Hoshi 58
Murine Lymphoma-Induced Immunosuppression: Requirement for Direct Tumor Cell Contact: R. S. Cimprich, S. Specter, H. Friedman. 60
Preferential Utilization of Free Cholesterol from High-Density Lipoproteins for Biliary Cholesterol Secretion in Man: C. C. Schwartz et al. 62
Tunicate Eggs Utilize Ammonium Ions for Flotation: C. C. Lambert and G. Lambert 64
Morphogenetic Responses of Cultured Totipotent Cells of Carrot (Daucus carota var. carota) at Zero Gravity: A. D. Krikorian and F. C. Steward 67
Orangutan Death and Scavenging by Pigs: B. M. F. Galdikas. 68
Bioluminescence: Dual Mechanism in a Planktonic Tunicate Produces Brilliant Surface Display: C. F. Galt 70
Fluorescence-Immunocytochemistry: Simultaneous Localization of Catecholamines and Gonadotropin-Releasing Hormone: T. H. McNeill and J. R. Sladek, Jr. 72
Behavior and Phylogeny: Constriction in Ancient and Modern Snakes: H. W. Greene and G. M. Burghardt 74
Development of Sensitivity to Pictorial Depth: A. Yonas, W. T. Cleaves, L. Pettersen 77
Behavior and the Crustacean Molt Cycle: Changes in Aggression of Homarus americanus: G. R. Tamm and J. S. Cobb. 79
Behavioral Thermoregulation: Orientation Toward the Sun in Herring Gulls: J. Jastick, B. Battersby, M. Kelty 81
Attenuation of Amnesia in Rats by Systemically Administered Enkephalins: H. Rigter. 83
Polyribosomes Associated with Forming Acrosome Membranes in Guinea Pig Spermatids: H. H. Mollenhauer and D. J. Morré 85

**COVER**

Simultaneous demonstration of catecholamines and neuropeptides-rhesus monkey supraoptic nucleus. A technique for the simultaneous demonstration of monoamines and neuropeptides was used to visualize catecholamine varicosities (blue) which appear to contact the soma and dendrites of a neurophysin-containing neuron (orange). The method is applicable to numerous neuropeptides, including GnRh, vasopressin, somatostatin, and others (about ×750). See page 72. [T. H. McNeill and J. R. Sladek, Jr., University of Rochester School of Medicine, Rochester, New York]